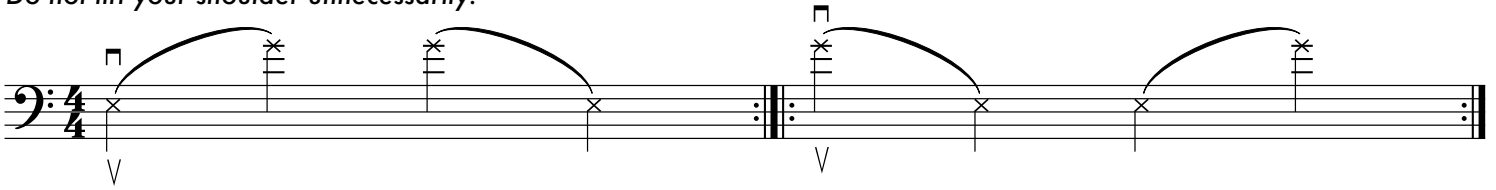


# Shifts (Position Changes)

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## Warm-up Siren

Non-determined pitch, to be practiced with all fingers (and thumb!), on all strings, with smooth, even glissando.  
Do not lift your shoulder unnecessarily!



Change positions smoothly, with an audible glissando at first, then gradually reduce the glissando.  
Shift POSITION TO POSITION, and not FINGER TO FINGER.  
Practice on all strings, and between other positions, as well.

A series of musical staves for the main shifts exercise. The first six staves are in 4/4 time and feature various fingerings (1, 2, 3, 4) and accidentals (sharps, flats) for shifts between positions. The last four staves are in 3/4 time and feature similar fingerings and accidentals. Each staff contains multiple measures of music, with repeat signs at the end of each line.

### Progressing to inaudible shifting

Two staves of music in 4/4 time. The first staff shows a sequence of notes with fingerings 1, 1, 3, 3 and a bowing mark (V). The second staff repeats the sequence with a different fingering: 1, 3, 3, 3. Both staves include repeat signs.

### One-string shifting Practice also between other positions

Four staves of music in 6/4 time, all on a single string. The first staff starts with a bowing mark (V) and a fingering of 0. The subsequent staves show various chromatic and diatonic patterns with fingerings 1, 2, 3, 4. The fourth staff ends with a fermata over a whole note.

### Étude by Davidov

Three staves of music in 4/4 time, key of D major. The first staff includes a bowing mark (V) and a fingering of 3. The second staff starts with a forte dynamic marking (f). The piece features intricate fingering patterns (1, 2, 3, 4) and slurs across multiple staves.

### Same Finger 1/2 Step Shifts (1-1; 2-2; 3-3; 4-4)

Two staves of music in 4/4 time. The first staff shows patterns for 1-1, 2-2, 3-3, and 4-4 shifts with fingerings 1, 1, 2, 3, 4, 3, 2, 1. The second staff shows similar patterns with fingerings 1, 2, 3, 4, 4, 4, 3, 2. Both staves include repeat signs.

also with other fingers

**"The Helicopter"** (to be practiced on all strings, with various rhythms and bowings)

The image displays a musical score for a cello exercise titled "The Helicopter". It is divided into two parts, 1 and 2, each with five staves of music. Part 1 is in 2/4 time and features a sequence of eighth-note patterns with various fingerings (0, 1, 2, 3, 4) and bowings. Part 2 is in 6/8 time and features a sequence of eighth-note patterns with various fingerings (1, 2, 3, 4) and bowings. The score includes repeat signs and a key signature change to one sharp (F#) in the second part.